

INTERNATIONAL SEARCH REPORT

Inter alia Classification No
PCT/IB 02/00343

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L39/14 H01L39/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

INSPEC, EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 540 416 A (ALCATEL CABLE) 5 May 1993 (1993-05-05)	1,2, 6-11,17, 22,24 12-16
A	column 2, line 52 -column 6, line 42; figures 2-4,7	
X	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 05, 30 April 1998 (1998-04-30) & JP 10 012065 A (FURUKAWA ELECTRIC CO LTD), 16 January 1998 (1998-01-16) abstract -& JP 10 012065 A (FURUKAWA ELECTRIC CO LTD) 16 January 1998 (1998-01-16) paragraph '0007! - paragraph '0013! paragraph '0017! - paragraph '0024! -/-	1,3,4,6, 7,9-11, 15,17, 22-24

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *O* document referring to an oral disclosure, use, exhibition or other means
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Date of the actual completion of the international search

9 October 2002

Date of mailing of the international search report

23/10/2002

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 295 023 A (AMERICAN TELEPHONE & TELEGRAPH CO) 14 December 1988 (1988-12-14)	1, 2, 6-8, 10, 11, 13, 14, 17, 23, 24
A	column 11, line 3 - line 36 column 16, line 13 - column 17, line 41; examples XIII, XIV ---	15, 16
A	DE 42 37 576 A (SIEMENS AG) 11 May 1994 (1994-05-11) column 2, line 29 - column 4, line 35; figures ---	1, 3, 5, 8, 10, 11, 15-18, 20, 24
A	WO 99 14812 A (ACCESS EV; SCHMITZ GEORG JOHANNES ET AL) 25 March 1999 (1999-03-25) page 6, line 1 - page 15, line 3; figures ---	1, 3, 4, 9-11, 15, 17, 18, 24
T	HAMMERL G ET AL: "A possible solution of the grain boundary problem for applications of high-T _c superconductors" ARXIV.ORG E-PRINT ARCHIVE, 'Online!' 13 August 2002 (2002-08-13), XP002216017 Retrieved from the Internet: <URL:http://arXiv.org/abs/cond-mat/0208253> 'retrieved on 2002-10-09! -----	

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Inte Application No

PCT/IB 02/00343

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0540416	A	05-05-1993	FR 2683086 A1	30-04-1993
			AU 658016 B2	30-03-1995
			AU 2737792 A	06-05-1993
			CA 2081612 A1	30-04-1993
			DE 69209225 D1	25-04-1996
			DE 69209225 T2	25-07-1996
			EP 0540416 A1	05-05-1993
			ES 2086099 T3	16-06-1996
			JP 2866265 B2	08-03-1999
			JP 6318411 A	15-11-1994
			US 5312804 A	17-05-1994
JP 10012065	A	16-01-1998	NONE	
EP 0295023	A	14-12-1988	US 5011823 A	30-04-1991
			US 5157017 A	20-10-1992
			AT 134796 T	15-03-1996
			AU 599807 B2	26-07-1990
			AU 1753088 A	19-01-1989
			CA 1327441 A1	08-03-1994
			DE 3855025 D1	04-04-1996
			DE 3855025 T2	13-06-1996
			DK 319288 A	25-01-1989
			EP 0295023 A2	14-12-1988
			HK 145396 A	09-08-1996
			JP 1072905 A	17-03-1989
			JP 2672334 B2	05-11-1997
			JP 2674979 B2	12-11-1997
			JP 8225321 A	03-09-1996
			KR 9705161 B1	12-04-1997
			US 5972846 A	26-10-1999
DE 4237576	A	11-05-1994	DE 4237576 A1	11-05-1994
WO 9914812	A	25-03-1999	DE 19740964 A1	18-03-1999
			WO 9914812 A1	25-03-1999